



# **2005 IEPR Strategic Transmission Planning Activities**

**Prepared in Support of the 2005 Integrated Energy  
Policy Report Update Proceeding  
(04-IEP-01F)**

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# **Strategic Transmission Planning**

- **Background: 2003 and 2004 Energy Report Proceedings**
- **Background: Strategic Transmission Plan**
- **2005 Staff Transmission Activities**
- **Today's Presentations**
- **Next Steps**



## **2003 Transmission Staff Report (Pub. #100-03-011) and *2003 Energy Report* (Pub. #100-03-019)**

- **Improve analytical methodologies for evaluating costs and benefits of transmission projects**
- **Evaluate impact/value of low-probability/high-impact events**
- **Need for comparing costs and benefits of transmission projects against alternatives in the planning process**



## **2004 Transmission Staff Report (Pub. #100-04-004D) and 2004 *Energy Report Update* (Pub. #100-04-006CTF)**

- **Initiate a comprehensive statewide transmission planning process that: (1) assesses statewide need for reliability, economic, and RPS transmission projects; (2) approves beneficial transmission investments that can move into permitting; (3) examines corridor needs; and (4) examines alternatives early in the planning phase.**



# **2004 Transmission Staff Report (Pub. #100-04-004D) and 2004 *Energy Report Update* (Pub. #100-04-006CTF)**

- **Improve cost/benefit assessment: (1) Capture the long life of transmission assets; (2) capture strategic benefits; and (3) use appropriate discount rate.**



# **2005 Strategic Transmission Plan**

- **SB 1565 (Bowen, 2004) added section 25324 to the Public Resources Code**
  - **Energy Commission shall adopt a strategic plan for the state's electric transmission grid using existing resources.**
  - **The plan shall be included in the IEPR adopted on November 1, 2005.**
- **2005 Transmission Staff Report will provide foundation for the creation of the Commission Strategic Transmission Plan**



# **2005 Transmission Staff Report Proposed Outline**

- 1) Status of California's existing transmission system**
- 2) Status of California's existing transmission planning and permitting processes**
- 3) Assessment of near- and longer-term transmission projects and paths**
- 4) Impact of transmission on renewables development**
- 5) Identification of corridor needs for long-term transmission projects and paths**



## **(2) Status of California's existing transmission planning and permitting processes**

- **Analysis of SCE's Devers-Palo Verde 2 and Tehachapi Projects vis a vis 2003 and 2004 Energy Report recommendations**
- **Southern California Issues**
- **Quantification of Operational Benefits of Economic Projects**
- **Evaluation Criteria for Transmission and its Alternatives**





### **(3) Assessment of near- and longer-term transmission projects and paths**

- **Problem Areas Being Evaluated**
  - San Diego/Imperial Valley
  - Southern California
  - Tehachapi
  - San Francisco Bay Area/Northern California
- **Primary Data Sources**
  - Resource Adequacy Filings
  - Monthly IOU filings to CPUC
  - CPUC/CA ISO/CEC “Watch List”
  - CA ISO/WECC/FERC/etc. documents



# Today's Presentations

- **Updates today on consultant results and works-in-progress**
  - **Analysis of DPV2 and Tehachapi projects**
  - **Southern California issues**
  - **Quantification of operational benefits**
  - **Evaluation criteria for transmission and its alternatives**



# Next Steps

- **Publish Transmission Staff Report – July 14, 2005**
- **Committee workshop on Transmission Staff Report plus presentation of final consultant work – July 28, 2005 (tentative)**